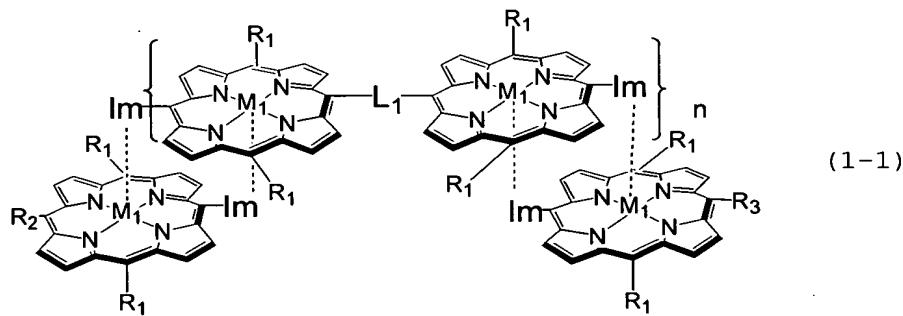


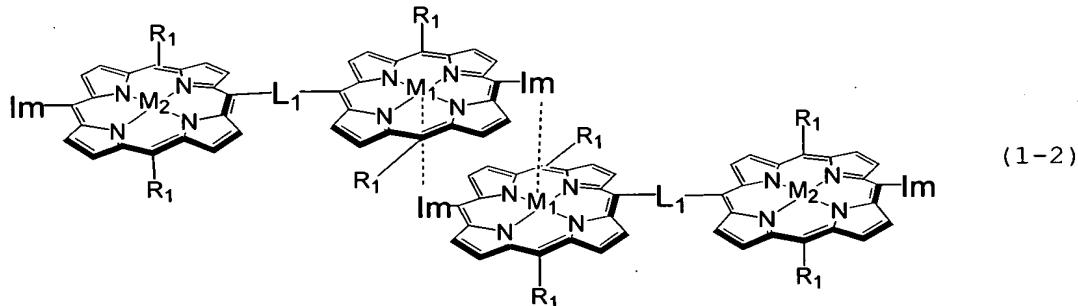
ABSTRACT OF THE DISCLOSURE

A porphyrin array exhibiting a large two-photon absorption property, and being linked with an acetylenic bond(s), represented by the following formulas:



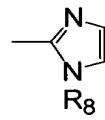
(1-1)

or

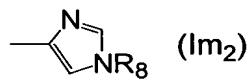


(1-2)

wherein R₁ represents an alkyl or aryl group, M₁ represents a metal ion capable of serving as a core metal and forming a coordinate bond with Im, M₂ represents two protons or a metal ion incapable of forming a coordinate bond with Im, R₂ and R₃ represent a group selected from a porphyrin residue or porphyrin metal complex residue, a cyclic diimide residue, a dialkylviologen residue, a benzoquinone residue, an N-methylpyrrolidine-fullerene derivative residue and a ferrocene residue, Im is represented by Im₁ or Im₂:



(Im₁)



(Im₂)

(R₈ represents methyl or H), L₁ represents $-(-C\equiv C-)_m-$ (m = 1 to 3); n represents an integer of 1 or more; R₉ represents one of R₁, R₂, R₃ and Im.